

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WPP86447	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/03538	International filing date (day/month/year) 13/08/2003	(Earliest) Priority Date (day/month/year) 13/08/2002
Applicant  PHARMA MAR, S.A.U.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☒ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

ENDOSYMBIOTIC GAMMAPROTEOBACTERIUM IDENTIFIED IN ECTEINASCIDIA TURBINATA

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/G 3/03538

## A. CLASSIFICATION OF SUBJECT MATTER

PC 7 C12R1/00 C12Q1/68 C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12R C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, EMBASE, BIOSIS, SEQUENCE SEARCH, EMBL, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! EBI, Hinxton, Cambs. UK; 2 June 1996 (1996-06-02) MAUEL MJ: "Piscirickettsia salmonis 16s ribosomal RNA gene" Database accession no. U55015 XP002268802 Sequence	1-11
X	DATABASE EMBL 'Online! EBI, Hinxton, Cambs. UK; 22 June 1998 (1998-06-22) KATO C. & LI L.: "Unidentified gamma proteobacterium 16s rRNA gene" Database accession no. AB15255 XP002268803 Sequence	1-11

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

19 February 2004

Date of mailing of the international search report

08/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Roscoe, R

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>MOSS C. ET AL.,: "Intracellular bacteria associated with the ascidian Ecteinascidia turbinata: phylogenetic and in situ hybridization studies"</p> <p>MARINE BIOLOGY, vol. 143, 29 March 2003 (2003-03-29), pages 99-110, XP009021372 the whole document -&amp; DATABASE EMBL 'Online! EBI, Hinxton, Cambs. UK; 10 April 2003 (2003-04-10) MOSS C. ET AL.,: "Uncultured gamma proteobacterium 16s rRNA gene" Database accession no. AY054370 XP002268804 Sequence</p>	1-12
P,A	<p>WO 02 064843 A (SALOMON CHRISTINE ;HAYGOOD MARGO (US); FAULKNER JOHN D (US); UNIV) 22 August 2002 (2002-08-22) the whole document</p>	1-12
A	<p>US 5 256 663 A (SAKAI RYUICHI ET AL) 26 October 1993 (1993-10-26) the whole document</p>	
A	<p>WEBSTER N S ET AL: "Phylogenetic diversity of bacteria associated with the marine sponge Rhopaloeides odorabile." APPLIED AND ENVIRONMENTAL MICROBIOLOGY. UNITED STATES JAN 2001, vol. 67, no. 1, January 2001 (2001-01), pages 434-444, XP002268801 ISSN: 0099-2240</p>	
A	<p>SCHMIDT E W ET AL: "Identification of the antifungal peptide-containing symbiont of the marine sponge Theonella swinhoei as a novel delta-proteobacterium, "Candidatus Entotheonella palauensis" MARINE BIOLOGY (BERLIN), vol. 136, no. 6, July 2000 (2000-07), pages 969-977, XP001156295 ISSN: 0025-3162</p>	
A	<p>PROKSCH P ET AL: "Drugs from the seas - current status and microbiological implications." APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. GERMANY JUL 2002, vol. 59, no. 2-3, July 2002 (2002-07), pages 125-134, XP009021423 ISSN: 0175-7598</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/03538

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02064843	A	22-08-2002	EP 1360337 A1	12-11-2003
			WO 02064843 A1	22-08-2002
US 5256663	A	26-10-1993	US 5089273 A	18-02-1992
			US 5149804 A	22-09-1992
			AT 69234 T	15-11-1991
			AU 589282 B2	05-10-1989
			AU 7581987 A	11-01-1988
			DE 3774435 D1	12-12-1991
			EP 0309477 A1	05-04-1989
			FI 885726 A	09-12-1988
			JP 2562162 B2	11-12-1996
			JP 1502749 T	21-09-1989
			WO 8707610 A2	17-12-1987
			AT 159022 T	15-10-1997
			AU 650829 B2	30-06-1994
			AU 9176491 A	25-06-1992
			DE 69127905 D1	13-11-1997
			DE 69127905 T2	28-05-1998
			DK 559838 T3	18-05-1998
			EP 0559838 A1	15-09-1993
			ES 2111631 T3	16-03-1998
			GR 3025837 T3	30-04-1998
			JP 6503579 T	21-04-1994
			JP 3098029 B2	10-10-2000
			WO 9209607 A1	11-06-1992